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ROCKY FLATS PLANT EMD OPERATING PROCEDURES MANUAL

Manual No.. Procedure No.. Page:

Effective Date:

Organization:

5-21000-OPS-GT Table of Contents, Rev 20

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06/04/92 **Environmental Management** 

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES.

**VOLUME I: FIELD OPERATIONS (FO) VOLUME II. GROUNDWATER (GW) VOLUME III: GEOTECHNICAL (GT) VOLUME IV. SURFACE WATER (SW) VOLUME V: ECOLOGY (EE) VOLUME VI. AIR (AP)** 

#### TABLE OF CONTENTS FOR VOLUME III: GEOTECHNICAL

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GT 01	Logging Alluvial and Bedrock Material	2	05/12/92
<b>G</b> T 02	Drilling and Sampling Using Hollow Stem Auger Techniques	2	05/12/92
GT 03	Isolating Bedrock from Alluvium with Grouted Surface Casing	2	05/12/92
DCN 92 03	Alternate Method of Installing Surface Casing	2	06/04/92
<b>GT</b> 04	Rotary Drilling and Rock Coring	2	05/12/92
GT 05	Plugging and Abandonment of Boreholes	2	05/12/92
GT 06	Monitoring Wells and Piezometer Installation	2	05/12/92
DCN 92 05	Schematic Diagram Land Fill Methane Wells	2	06/04/92
GT 07	Logging and Sampling of Test Pits and Trenches	2	05/12/92
GT 08	Surface Soil Sampling	2	05/12/92
GT 09	Soil Gas Sampling and Field Analysis	2	05/12/92

REVIEWED FUR CLASSIFICATION/LIGHT

**ADMIN RECORD** 

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**Environmental Management** 

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GT 10	Borehole Clearing	2	05/12/92
GT 11	Plugging and Abandonment of Wells	2	05/12/92
GT 15	Geophysical Borehole Logging	2	05/12/92
GT 17	Land Surveying	2	05/12/92
GT 18	Surface Geophysical Surveys	2	05/12/92
GT 19	Field Gas Chromatographs	2	05/12/92
GT 20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	2	05/12/92
GT 21	Cone Penetrometer Testing	1	05/12/92
GT 24	Approval Process for Construction Activities on or Near Individual Hazardous Substance Sites (IHSSs)	0	05/12/92

## DOCUMENT CHANGE NOTICE (DCN)

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	RED St	AGEMENT amb						
Title						Date	DCN Num	ber PS- <b>GT-03</b> ,6
Surface Casing Installation and Sealing Procedures						June 3, 1992	DCW	93.03
Expires _	9-3	<u>-92</u>		Proced	ure Revision Re	quired X Yes	] No	
Scope Lim	utation	none						
	•	HOHE						
item Number	Page	Step or Paragraph		(Use D	CN CONTINUA	Changes TION SHEET for Add	ditional Spac	ce)
1	9 of 10	53	mixture macasing and casing, addeduced in the case of	ay be emplace the surface ditional grout by means of the surface ection 5 3, G	ed in the annul casing. Upon a secontinuously a tremie pipe if casing will be cas	to be installed exce ar space between the removal of each sect added to the annulation the annulus contain lisplaced by a grout	he augers o stion of auge lus. The gr ns water A	r drill er or drill out will be ny grout
1. When b	oridging a bing the cand the v	and excessive	e slough is ai into the ann rehole	nticipated, re	moving the aug	nding items above) gers (or drill casing) between the surface  Organization		Date
<i>,</i>				+ , , -				
Muym	Trup	QAPM	X	6/5/42	T.P. Louge	th User	×	c/3/92
M. Bron	ward	EOM	X	6/4/92	EA. Vill	É User	X	6/5/92
1 - 1	T			7 7				/ /
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Approvator	Respon	sible Manage	r Date	<u>1</u> -92	Is Posting Rec	qd? If Yes, By What	Date?	Date Posted

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rocedure Number	5-21000-OPS-GT 6	Rev 1
rocedure Number	5-21000-OPS-GT 6	Rev 1

Page 1 of 1

Title  Monitoring Wells and Piezometer Installation						Date 6-4-92	DCN Number 5-21000-OPS- して. ひよれ つこん 93-05		
Expires			Pr	ocedure Rev	rision Required	X Yes No	1 5010	14.05	
Scope Lin	nitation	Methane dega	assification we	lls at the Pre	sent Landfill				
Item Number	Page	Step or Paragraph		Changes (Use DCN CONTINUATION SHEET for Additional Space)					
1	Add a new section entitled 5 4 Methane Wells as follows  Boreholes for methane wells will be drilled by using a drilling rig and drilling method capable of completing the well at the depth specified in the FSP. All drilling will be within and through fill for the purpose of venting methane only. Drill rigs will be decontaminated before entering and after leaving the Landfill. If no samples are taken, the augers will not need to be decontaminated between wells.  Locations will be marked and cleared as per 5.2. Boreholes will be drilled approximately 2 feet into bedrock to provide lithologic control and then reamed through the fill interval. In the event that methane concentrations exceed the concentrations permitted in the Heath and Safety Plan, water may be added to the hole to suppress the methane. Augers will be sized as per section 5.2.  Well casings and well screens will be as per the FSP or work plan and will be equal diameter and wall size. The filter pack will be as per the FSP. The bentonite seal we be as per 5.3.2.3. A schematic diagram of methane well without the protective surface features is attached.						ng will be vill be les are amed the led to the l be equal in onite seal will will be as		
		# <sup>7</sup>			·	onding Items Above or any environmenta	•	activities	
Concurrence Organization		on Req	Date	Concurrence	Organization	Req	Date		
Kauf	13mg	QAPM ,	×	6/4/92	U-L Pumi	User	х	6/4/92	
		sible Manage ルク 8・・・ユラ		14/92	Is Posting Req	d? If Yes, By What		Date Posted	

## Schematic Diagram

## LANDFILL METHANE WELLS

